ILLINOIS RIVER WATERSHED MODELING

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the Upper Illinois River Watershed in northwest Arkansas and northeast Oklahoma? QUESTION: Why is EPA developing water quality models for Lake Tenkiller in Oklahoma and

- effect any necessary changes to the models. received, EPA will work with our state and tribal partners to evaluate the comments and municipalities, industry, and environmental interest groups. Once stakeholder comments are tribal partners consider the models ready for review by external stakeholders, including models to resolve technical issues raised by the tribe and the states, EPA and our state and The EPA is developing water quality models to support ongoing efforts by the States of the Illinois River Watershed and Lake Tenkiller. Having revised earlier versions of the Arkansas and Oklahoma and the Cherokee Nation to address water quality impairments in
- impact of nutrients in the Illinois River Watershed and Lake Tenkiller. partners, along with extensive text documentation, to support their efforts to reduce the Ultimately, EPA will provide final versions of the water quality models to our state and tribal
- requirements even when challenges cross state lines This effort exemplifies how the EPA and the states can work together to meet their CWA

BACKGROUND:

- The EPA's efforts to develop two water quality models, one for the Illinois River Watershed Basin and another for Lake Tenkiller, began in late 2009
- impaired waters. Lake Tenkiller is listed as impaired by the State of Oklahoma. river in both states are included on the states' Clean Water Act Section 303(d) lists of phosphorus)impairments in the Illinois River Watershed and Lake Tenkiller. Portions of the Region 6 developed draft water quality models to address nutrient (especially In cooperation with the Cherokee Nation and the States of Arkansas and Oklahoma, the EPA
- and Arkansas provided detailed comments on the modeling efforts. Meetings with state and tribal representatives to refine draft versions of the models. Oklahoma Between April and November of 2016, Region 6 convened a total of six Technical Workgroup
- Oklahoma and Arkansas that the models are ready to be used for evaluating water quality stakeholder comments, and has built broad consensus among the regulatory partners in both restoration approaches. Region 6 revised the draft models to improve their calibrations in response to state and tribal
- which result from nutrients including phosphorus. sources (i.e., runoff from poultry litter application sites). Downstream impacts to Lake Phosphorus levels in the Illinois River are impacted by municipal discharges and nonpoint Tenkiller are reflected by high chlorophyll-a and low dissolved oxygen levels in the water,
- expressed interest in the EPA's modeling efforts on behalf of their constituents. Responses were provided in September and November of 2016. In August of 2016, members of the Arkansas and Oklahoma Congressional Delegations
- committed approximately 0.5 FTE to overceeing the arginal Since the beginning of the project, the EPA has expended about \$1.5M. The EPA has

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